MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2022/ 2023

DAC5614 – COMPUTER & SOFTWARE APPLICATIONS

(All sections/Groups)

13 JULY 2023
9.00 a.m – 11.00 a.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 9 pages with 2 sections.

2. Attempt **ALL** questions in Section A and Section B. The distribution of the marks for each question is given.

3. Please write all your answers for Section A on the OMR form provided and all answers for Section B in the Answer Booklet provided.

SECTION A: Multiple Choice Questions (40 Marks)

1. Which one of the following computer functions manipulates the data into information?
   A. Input function
   B. Process function
   C. Output function
   D. Storage function

2. Which of the following device is suitable for a cashier to scan bar code of a product to get the data?
   A. Printer
   B. Mouse
   C. Monitor
   D. Scanner

3. The following device is needed to hear sounds from a movie on a laptop:
   A. Speaker
   B. Monitor
   C. Printer
   D. Microphone

4. Which of the following statement about binary language is **TRUE**?
   A. Combination of 0 and 1 is called binary digit.
   B. Series combination of 0 until 8 is known as a byte.
   C. Capital letter "A" and small letter "a" is represented with the same byte.
   D. Binary code represents each letter, number, including special character in computer.

5.

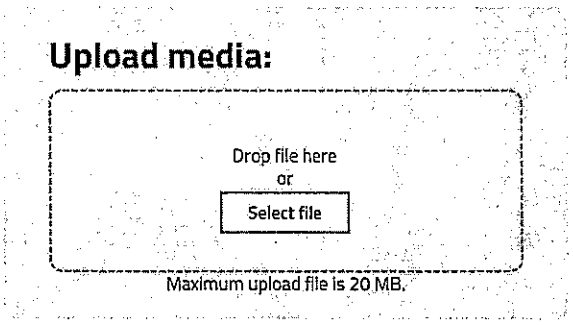

Figure 1: Upload media file.

Based on **Figure 1**, which one of the following media file **CANNOT** be uploaded to the above form submission?
   A. Media file C, 1 GB
   B. Media file A, 5 KB
   C. Media file D, 15 MB
   D. Media file B, 15000 KB

Continued ...

6. *"Students can verify their student's email to get the special price for the software package offered."*
   The above statement is referred to:
   A. Beta version software
   B. Student discount software
   C. Freeware software
   D. Open-source software

7. Advantages of using productivity software are:
   I. It increases efficiency in completing task.
   II. Can help to reduce errors compared to conventional work.
   III. Easy to share information with others.
   IV. Less time consuming to complete task.

   A. I, and II.
   B. I, III, and IV.
   C. II, III, and IV.
   D. All of the above.

8. Microsoft Office 365 is an example of:
   A. proprietary software
   B. open-source software
   C. vertical software
   D. horizontal software

9. The most **SUITABLE** software to create a resume is:
   A. database
   B. spreadsheet
   C. presentation
   D. word processing

10. A small program that runs automated process in Microsoft Excel is called:
    A. wizard
    B. macro
    C. micro
    D. template

11. A mouse click is an example of:
    A. interrupt handler
    B. preemptive multitasking
    C. event
    D. spooler

Continued ...

12. _____ allows computer user to continue working without waiting for a print job to finish printing.
    A. Interrupt handler
    B. Preemptive multitasking
    C. Event
    D. Spooler

13.

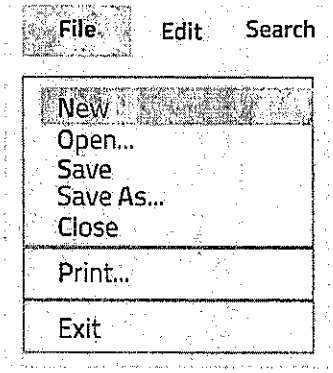

Figure 2: Screenshot of user interface

Figure 2 above is a screenshot of _____ user interface.
    A. command-driven
    B. menu-driven
    C. graphical
    D. file-driven

14. Which of the following peripheral device connect to computer and ready to be used right away with the plug and play features?
    A. Mouse
    B. Printer
    C. Scanner
    D. Modem

15. The Windows _____ is one of the Windows features that allows user to revert the previous version of Windows.
    A. reset
    B. reboot
    C. rollback
    D. rescan

16. Which of the following is the **VALID** Windows file path of an image?
    A. C://Documents/Wallpaper/tropical.jpg
    B. C:/Documents/Wallpaper/tropical.jpg
    C. C:\Documents\Wallpapper\tropical.jpg
    D. C:\\Documents\Wallpapper\tropical.jpg

Continued ...

17. The latest processor for macOS is:
    A. Intel
    B. M2
    C. Snap Dragon
    D. AMD

18. Which one of the subcomponents listed below is **NOT** a part of the Central Processing Unit (CPU)?
    A. RAM
    B. Register
    C. Control Unit
    D. Arithmetic Logic Unit

19. Which processor subcomponent executes the instruction in the third stage of machine cycle?
    A. RAM
    B. Register
    C. Control Unit
    D. Arithmetic Logic Unit

20. Based on the information in **Figure 3**, what is the speed of this CPU?

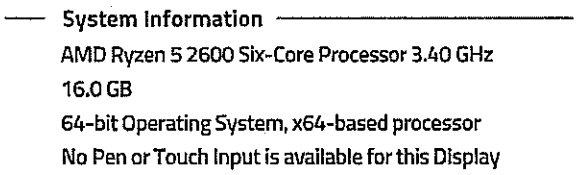
System Information
AMD Ryzen 5 2600 Six-Core Processor 3.40 GHz
16.0 GB
64-bit Operating System, x64-based processor
No Pen or Touch Input is available for this Display

Figure 3: Screenshot of computer system information.

    A. 2600
    B. 16.0 GB
    C. x64
    D. 3.40 GHz

21. CPU's processing power is faster when it has:
    I. lower clock speed.
    II. more number of cores.
    III. capabilities to handle parallel processing.
    IV. pipelined CPU.

    A. I, and II.
    B. I, III, and IV.
    C. II, III, and IV.
    D. All of the above.

Continued ...

22. Increasing the CPU's clock rate speed is called:
    A. overclocking
    B. multiple core
    C. parallel processing
    D. rebooting

23. A device that reads e-text and has special screen display is called:
    A. e-ink
    B. e-book
    C. e-reader
    D. e-screen

24. The audio analog-to-digital converter turns _____ into _____.
    A. digital audio, analog audio
    B. sound wave, binary values
    C. bit, bytes
    D. bytes, bit

25. The following are the file formats used to store digital music and videos **EXCEPT**:
    A. MP3
    B. AAC
    C. MP4
    D. PNG

26. Which of the following is a system of access that allows only limited use of material that has been legally purchased?
    A. Dolby Digital
    B. Digital rights management (DRM)
    C. End of User Licence Agreement (EULA)
    D. Internet of Thing (IoT)

27. In digital photography, _____ files record all the original image information.
    A. BMP
    B. PNG
    C. JPG
    D. RAW

28. In client/server network, _____ will send service request to _____.
    A. client, server
    B. server, client
    C. protocol, policies
    D. policies, protocol

Continued ...

29. Which of the following statement explain about the internet protocol address?
    A. When connected to the Internet, your computer is assigned a unique number called an Internet Protocol address.
    B. IP addresses are how computers identify each other.
    C. Each website is assigned an IP address.
    D. Because IP addresses are difficult for people to remember, websites are given text versions of their IP addresses.

    A. I, and II.
    B. I, III, and IV.
    C. II, III, and IV.
    D. All of the above.

30. Which of the following is an example of media sharing platforms for a video?
    A. Voice Over Internet Protocol (VoIP)
    B. YouTube
    C. Skype
    D. e-commerce site

31. Which of the following URL indicates that the website is secured?
    A. http://...
    B. http::
    C. https://
    D. C:\\

32. Metasearch engine is also known as:
    A. Metadata
    B. Search aggregator
    C. Direct search
    D. Horizontal search

33. Which of the following is **NOT** Boolean operator search?
    A. AND
    B. NOT
    C. OR
    D. EQUALS

34. _____ targets consumers by their location used by third party advertising networks.
    A. Geolocation
    B. Demography
    C. Anatomy
    D. Customer persona

Continued ...

35. Which of the following has the **WEAKEST** password for a login authentication?
    A. my_pa$$w.rd7898
    B. 0URP@SSW0RD
    C. her_password
    D. y0ur.P@55w0rd

36. Which of the following statement is **TRUE** about firewalls?
    A. Windows and macOS does not include the firewalls.
    B. Firewalls cannot filter out the packets sent to logical ports.
    C. You cannot set firewall to completely refuse access request from internet to specific port.
    D. Firewalls use a process called network address translation to assign internal IP addresses on a network.

37. A _____ is a program deployed by hackers that looks at each packet as it travels on the Internet.
    A. malware
    B. scareware
    C. keylogger
    D. packet analyzer

38. A _____ often steal personal information to counterfeiting credit and debit cards.
    A. scammer
    B. hacker
    C. spammer
    D. virus

39. The _____ and _____ allow hackers to gain access to a computer.
    A. backdoor program, rootkits
    B. virus, rootkits
    C. spyware, adware
    D. macro virus, rootkits

40. _____ replicates themselves onto a hard drive's master boot record.
    A. Boot-sector virus
    B. Logic bomb virus
    C. Zombie computer
    D. Sniffer

(Total: 40 marks)

Continued ...

SECTION B: Structured Questions (60 Marks)

QUESTION 1

(a) Justify **FOUR (4)** benefits of cloud storage. (8 marks)

(b) Discuss **THREE (3)** advantages of using presentation template in Microsoft PowerPoint. (6 marks)

(c) List the correct extension file name for the following file types:
(i) Compressed file (1 mark)
(ii) Portable document format (1 mark)
(iii) Text file (1 mark)
(iv) Rich text format (1 mark)
(v) Image file (1 mark)
(vi) Video file (1 mark)

(Total: 20 marks)

QUESTION 2

(a) Complete the illustration below and explain how the pipelined processor and non-pipelined processor execute the instructions. (8 marks)

(b) Explain the following categories of intellectual properties:
(i) Copyright (2 marks)
(ii) Patents (2 marks)
(iii) Trademarks (2 marks)

(c) Discuss **THREE (3)** factors that determine quality of an image (6 marks)

(Total: 20 marks)

Continued ...

QUESTION 3

(a) Elaborate how a search engine works upon keyword search. (9 marks)

(b) List **TWO (2)** examples of real time communication using instant messaging. (2 marks)

(c) Explain the **THREE (3)** methods used by viruses to avoid detection. (9 marks)

(Total: 20 marks)

End of Paper